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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 8400**  
Mitsuaki OSHIMA et al. : **Docket No. 2000\_1307**  
Serial No. 09/667,525 : **Group Art Unit 2634**  
Filed September 21, 2000 : **Examiner A. Le**  
**COMMUNICATION SYSTEM**

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**AMENDMENT**

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Assistant Commissioner for Patents,  
Washington, D.C.

Sir:

In response to the Office Action mailed September 5, 2002, the period for response to which having been extended by three months to March 5, 2003, please amend the application as follows.

**IN THE CLAIMS:**

Please cancel claims 13-18 without prejudice or disclaimer to the subject matter therein and add new claims 19-27 as follows.

19. A signal transmission and receiving apparatus comprising a transmission apparatus and a receiving apparatus.

said transmission apparatus comprising:

- a mapper operable to map a data stream to an n-level mapped signal;

- a filter having a VSB characteristic, which covers a frequency band including a carrier frequency, and a roll-off characteristic, which covers a frequency band not including the carrier frequency, said filter being operable to filter the n-level mapped signal to produce a VSB modulated signal; and

- a transmitter operable to transmit the VSB modulated signal;

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